DATA SHEET
U 5.166
ROTARY VANE–VACUUM PUMPS
oil-lubricated
air-cooled

MAKE IT BECKER.
According to DIN EN ISO 11203, accuracy class of measurement: class 2, extended measurement uncertainty: 3 dB
39.4 inch distance, at medium load, both connection sides piped

Becker Lube: Synthetic Oil • Premium Synthetic Oil (PAO) • Food Grade Vacuum Pump Oil

Gas ballast valve: vacuum 0.75 Torr with opened gas ballast valve; water vapour tolerance max. 5.25 Torr;
water vapour capacity max. 0.079 U.S.gal./h (at 185°F operating temperature)

<table>
<thead>
<tr>
<th>Nominal capacity</th>
<th>Vacuum absolute for continuous operation</th>
<th>Motors</th>
<th>Emission sound pressure level</th>
<th>Weight w/o motor</th>
<th>Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFM 50 Hz</td>
<td>Torr 50 Hz</td>
<td>Torr 60 Hz</td>
<td>hp 50 Hz</td>
<td>hp 60 Hz</td>
<td>dBA 50 Hz</td>
</tr>
<tr>
<td>97</td>
<td>116</td>
<td>&lt;0.075–75</td>
<td>&lt;0.075–75</td>
<td>4.0</td>
<td>4.8</td>
</tr>
<tr>
<td>97</td>
<td>116</td>
<td>&lt;0.075–300</td>
<td>&lt;0.075–300</td>
<td>5.4</td>
<td>6.4</td>
</tr>
</tbody>
</table>

1 Vacuum connection (G2)
2 Exhaust air connection (G2)
3 Oil filler cap (G¾)
4 Oil sight glass (G1)
5 Screw plug for oil drain (G½)
6 Rubber buffer position
7 Optional: threaded connector for exhaust air (G2)
8 Optional: temperature sensor PT100

Length see motor table
• incl. gas ballast valve, non-return valve, oil separator and oil filter
• The motor illustration may vary
• Dimensions in inch
<table>
<thead>
<tr>
<th>#</th>
<th>hp</th>
<th>50 Hz</th>
<th>60 Hz</th>
<th>Version</th>
<th>Weight</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>V</td>
<td>min⁻¹</td>
<td>A</td>
<td>kW</td>
<td>V</td>
</tr>
<tr>
<td>01</td>
<td>4.0</td>
<td>230/Y400</td>
<td>IE3</td>
<td>1458</td>
<td>11.4/6.57</td>
<td>IE3</td>
</tr>
<tr>
<td>02</td>
<td>4.8</td>
<td>YY208</td>
<td>IE3</td>
<td>1750</td>
<td>12.7/6.34</td>
<td>IE3</td>
</tr>
<tr>
<td>03</td>
<td>4.0</td>
<td>200/Y350</td>
<td>IE3</td>
<td>1463</td>
<td>12.9/7.47</td>
<td>IE3</td>
</tr>
<tr>
<td>04</td>
<td>4.8</td>
<td>400</td>
<td>IE3</td>
<td>1755</td>
<td>7.28</td>
<td>UL (E365362)</td>
</tr>
<tr>
<td>05</td>
<td>5.4</td>
<td>230/Y400</td>
<td>IE3</td>
<td>1450</td>
<td>14.9/8.6</td>
<td>IE3</td>
</tr>
<tr>
<td>06</td>
<td>6.4</td>
<td>YY208</td>
<td>IE3</td>
<td>1740</td>
<td>16.0/9.2</td>
<td>UL (E365362)</td>
</tr>
<tr>
<td>07</td>
<td>5.4</td>
<td>200/Y350</td>
<td>IE3</td>
<td>1740</td>
<td>9.8</td>
<td>UL (E365362)</td>
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<td>400</td>
<td>IE3</td>
<td>1740</td>
<td>9.8</td>
<td>UL (E365362)</td>
</tr>
</tbody>
</table>

- Current consumption and rotation speed may vary. Tolerance in each case -1.5/+2%
Suction air rate refers to the intake pressure.
Reference data (atmosphere): 0 In. HgV / 760 Torr, 68°F; Tolerance: ±10%
**VARIANTS AND ACCESSORIES**

- Optional **GAS BALLAST VALVE** for increased water vapour tolerance (2.25 Torr)
  water vapour tolerance: max. 37.5 Torr; water vapour capacity: max. 0.528 U.S. gal./h (at 185°F operating temperature)
- **THREADED CONNECTOR** for exhaust air (G2)
- **U 5.166 O2-PACK** for packaging with an overconcentration of oxygen
- **U 5.166/0-62XL** with enlarged oil tank and high efficient triple stage oil separation,
  weight without motor: 176.4 lbs, oil quantity: 2.6 U.S. gal., further technical data, motors and characteristic curves like standard pump

**ACCESSORIES**

1. Oil level switch\(^{(1)}\) (G1)
2. Oil temperature monitor\(^{(1)}\) (G\(\frac{1}{2}\))
3. Maintenance indicator\(^{(1)}\) (G\(\frac{3}{4}\)) for oil separating elements
4. Ball valve (G\(\frac{1}{2}\)), with locking and hose connector 0.75 inch
5. Temperature sensor PT100
6. Water cooler U5.200-0-114.2\(^{(1)}\) with connectors for hoses with an external diameter of 0.32 inch
   - External suction filter
   - Oil: Synthetic Oil, Premium Synthetic Oil (PAO) and Food Grade Vacuum Pump Oil

\(^{(1)}\) See separate data sheet
• Combination options on request